

JA



PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/926,036

DATE: 02/13/2002
 TIME: 10:00:04

Input Set : A:\Sequence
 Output Set: N:\CRF3\02132002\I926036.raw

ENTERED

9 <110> APPLICANT: Rudnicki, Michael A.
 11 Sabourin, Luc A.
 15 <120> TITLE OF INVENTION: A Caspase Activated Protein Kinase
 19 <130> FILE REFERENCE: 12536-2
 23 <140> CURRENT APPLICATION NUMBER: US 09/926,036
 25 <141> CURRENT FILING DATE: 2000-02-18
 29 <150> PRIOR APPLICATION NUMBER: US 60/120,784
 31 <151> PRIOR FILING DATE: 1999-02-19
 35 <160> NUMBER OF SEQ ID NOS: 11
 39 <170> SOFTWARE: PatentIn version 3.1
 43 <210> SEQ ID NO: 1
 45 <211> LENGTH: 5257
 47 <212> TYPE: DNA
 49 <213> ORGANISM: Mus musculus
 53 <400> SEQUENCE: 1

54 gaattccggg ccttttattt ttccttagccc tttaaggca aggggctctg ctgggcttgg	60
56 aaaaatgtcc ttcttcaatt tccgtaaat cttcaagttt gggagcgaga agaagaagaa	120
58 acagtacgaa cacgtgaaga gagacctgaa ccccgaagag ttttgggaga ttattggaga	180
60 actgggcgac ggagccttcg gaaaagtcta taaggccag aataaaagaga ccaatgttt	240
62 agctgctgca aaggtgattt acaccaaatac tgaagaagag cttgaagatt atatggttga	300
64 gattgacata ttagcatctt gtgatcaccc aaacatcgta aagcttcttag atgcottcta	360
66 ttacgagaac aaccttttga tcctcattga attctgtca gggggagcag tggatgtgt	420
68 gatgcttgaa cttgagagac cattaactga atccccaaatac caagtagtct gcaaggcagac	480
70 attagaggca ttgaattact tacatgacaa taaaatcatc caccgagatc taaaagctgg	540
72 caatattctc tttaccttag atggagacat taaaattagcg gattttggag tatcaagctaa	600
74 aaataccagg acaattcaaa ggagggattt atttatttgc acaccatatt ggatggctcc	660
76 tgaagtagtc atgtgtgaga catcaaaggaa cagaccttat gactacaaag ctgatgttt	720
78 gtccctgggt attacttta tagaaatggc tgagatagag ccacctcatc atgagttaaa	780
80 tccaatgcgc gtgctgtca aaattgcaaa atctgagccc ccaacattag cacagccatc	840
82 aaaatggtct tcaaatttttta aggactttct aaggaaatgc ttggaaaaga atgtggatgc	900
84 gcggtggacc acgtctcagc ttttgcagca tccctttgtt accgttattt ccaacaaacc	960
86 agtccgagag ttgattctg aggcaaaggc tgaagtaaca gaagaagttt aagatggcaa	1020
88 ggaagaagat gaggaggagg aagcagagaa tgctctgcca atacctgcaa ataaacgtgc	1080
90 ctctctgac ctcagcattt ccagctctga agaagataaa ctttcacaaa atgcttgtat	1140
92 tttggatct gtgtcagaaaa gaacagaaca aagtacttct gaggataaat ttagcaacaa	1200
94 aattcttaat gagaaaccta cgactgacgg tcctgagaag gctgtggatg agcatgcaag	1260
96 ttagtgcac ttagaaactg gggctgaact aaatgaccaa acagtaggaa tccatgagaa	1320
98 tgggagagag aagaaaagac ccaagctgga aaatctgcca gatacacaag accagcaaac	1380
100 tggatgtt aattcagtca gtgaagaaaa tgagaataat agagtaactt tagaaaacgaa	1440
102 cactgattgt ctgaaaccag aggaagacag aaataaaagaa aaccaagaga cacttgagag	1500
104 taaacttata caatctgaag aaattaatga cacacatatt caaacaatgg acttagttc	1560
106 tcaagagact ggagaaaaag aagcagattt tcaggcagtt gacaatgaag ttgggcttac	1620
108 aaaggaaagaa acccaagaga aatttaggaaa agatggtaca gtcaaaaag ttataaccag	1680

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/926,036

DATE: 02/13/2002
TIME: 10:00:04

Input Set : A:\Sequence
Output Set: N:\CRF3\02132002\I926036.raw

110	tgatagaagc	agtggagggtgg	ggacagacga	ggctcttagat	gacactcaga	aggctgctga	1740
112	gctcagtaag	gcagcacaga	gtggggaaagg	ggacaagcc	ctggcgccct	cccacagacact	1800
114	agcagagaag	cccacagagg	gccctgaggc	cgggtgggct	gaggaagagc	ctctgggtgg	1860
116	agagagagtt	gaggataaac	agccagagca	gcagctgca	gtgtgtgaag	ctgagggaca	1920
118	gttaaccagc	acgtcagaga	ccacacgggc	aaccctggag	caaccggaga	cggatgaagt	1980
120	tgagcaggc	agcgagtcca	atagcattga	ggagctagag	agactttag	ttactggtgc	2040
122	tgagggcacgg	ctctcgggag	tgaagggtgag	gcagctgta	ctgaggtaga	tttggagaga	2100
124	aaagaaaaacg	cacagaaaat	gcccgttaaa	gcagagtccc	aagctcctgc	agcatcgac	2160
126	cccgccgagc	ctcacccctgt	cttaatacc	agtattaata	ttaattctga	aaccacagaa	2220
128	aataaagaag	aatgggtgc	tttgcacaaa	cctgaaacca	tactgccacc	agagcctgaa	2280
130	catgaaaagg	gaaatgacac	cgactcagg	actgggtcca	ctgtggagaa	tagcagtgg	2340
132	gacctgaact	tgtccatctc	tagcttcct	agcaaaagcta	aggacagcgg	ctcagtgtct	2400
134	ctgcaggaga	caagaagaca	gaagaaaaaca	ttgaagaaaa	cacgcaagtt	tattgtcgat	2460
136	ggtgttagaag	tgagtgtgac	gacatcgaag	atagttacag	acagcgactc	caaaacggag	2520
138	gaactgcgt	ttctcaggcg	tcaggaactt	cgggagctga	ggcttcttca	gaaggaggag	2580
140	cagcgagccc	agcagcagct	caatgggaaa	ctgcagcagc	agcgggagca	gatcttcagg	2640
142	cgctttgagc	aggagatgct	gagtaagaag	cgacaatatg	accaagaaat	tgagaattta	2700
144	gagaagcagc	agaaacacagac	aattgaacgg	ctagaacaag	agcacactaa	ccgcctgaga	2760
146	gacgaagcca	agcgcataa	aggagagcag	gagaaggagc	tgtccaagtt	ccagaatgtg	2820
148	ctgaaaaacc	gcaagaagga	gaaacaagaa	tttggtcaga	agcaacaaca	agagtttagat	2880
150	ggttctctga	aaaagattat	ccagcagcag	aaggcagagt	tggccatat	tgagagagaa	2940
152	tgcctgaata	acaaggcagca	gctcatgaga	gctcgagaag	ccgcaattt	ggagcttcaa	3000
154	gagcgcacatt	tacaagagaa	gcaccagctg	cttaaacagc	agcttaaaaga	tcagtattt	3060
156	atgcagagac	atcagctgct	aaaacgcac	gagaaggaaa	cagaacaaat	gcagcgctac	3120
158	aatcaacgac	ttattgaaga	actgaaaaac	agacagactc	aggaacgagc	gagactgccc	3180
160	aagattcaaa	gaagtgaaagc	caagacacga	atggccatgt	ttaaaaaaaag	tttgaggatc	3240
162	aactcaacag	ccacaccaga	ccaggaccgt	gaaaaaattt	aacagtttgc	tgcacaagaa	3300
164	gaaaagagac	agaaaaatga	gagaatggct	cagcatcaaa	aacatgagag	ccaaatgcgg	3360
166	gatcttcagt	tgcagtgtg	agccatgtt	cgggactgc	accagctgca	aatgaaaaaa	3420
168	tgccacctgt	tggttgaaca	tgagactcag	aagctgaagg	agttggatga	ggagcacagc	3480
170	caagagctga	aggagtggag	agagaagctg	agacccagga	agaagacact	ggaagaagag	3540
172	tttgcacca	aactgcacca	acaggaagtg	ttctttaaa	tgactgggaa	gtccgaatgt	3600
174	cttaatccat	cagcacagag	ccggatctct	aaattctacc	ctattccac	cttacattcc	3660
176	actgggtcat	agcaacagca	agtgtccctc	tctggattt	gcttctaagt	acatcattgt	3720
178	attcttc	tcttcacag	tatgtatgac	tacaaagaca	atcacctgct	tcatcttctt	3780
180	gggggtttt	aaaatttctt	tcttgaattt	tattttaaa	caaagatgaa	gggcagacga	3840
182	actaagacag	atgctcgcc	atgttggta	cgtgcacatc	cgtggtaatt	ccctaagggt	3900
184	attttgtata	ttgacctaa	atattgtatt	ctttagacac	tggttattgaa	aactgcccaga	3960
186	gacataatgt	ttaaaagttt	ttggaaaata	tatctgttac	atcactaagt	attaataaaat	4020
188	attgttttac	ctgatttctc	aatgtatgct	aattctatag	aaaggactct	gctatagaaat	4080
190	tgggataatt	ttcttggta	aaccaactt	tactttaaa	aagccatgag	ttagagaata	4140
192	cgttattgtat	tcagtcata	gatatatttt	tatcactaaa	caggatcaaa	atctttaaa	4200
194	agagaaaaat	tatttcaata	atttgcgc	aacattagcc	tgtgtggta	ggagctaatt	4260
196	attaaggtgc	taattttatt	aagatagtgc	ctaaaacact	aaattttaaa	catatgtaaa	4320
198	atggggctt	cctttggtc	atgaggaaca	aagtcccc	ctcactgaca	tcactgttt	4380
200	aaaaacttgc	ttatattacc	attccgtaga	aaattacatc	ctaaaacaga	tggtgtacaa	4440
202	agcctggaa	gatggagaa	ctggctttaa	catgtgagtt	ggtgagcccc	tttactctct	4500
204	gagagatg	cacagctcag	ggagttctgc	catcaccgag	agctcagccc	tgagctgcag	4560
206	tcacggctac	agttctgaag	ctagtctcag	cagtttgt	ccacaatgga	ttttcttc	4620

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/926,036

DATE: 02/13/2002
TIME: 10:00:04

Input Set : A:\Sequence
Output Set: N:\CRF3\02132002\I926036.raw

208	tatcagacac	acacccaagg	tgacactggg	ttgttccaa	tgaggttatt	caagtgcatt	4680											
210	ttggtttat	tttattccat	gtttaaatta	attactttgg	gttaggaaaag	cctgaagtct	4740											
212	ctatcatgtg	gttactggta	catgtgattt	tgtgaaatg	ttcactctta	gttcctttg	4800											
214	aagttcagaa	tctcagccac	atgtcaggtc	aacagtgtta	gaaacagcac	atttgtaaat	4860											
216	gatgctact	gcctgcatt	ggcaacctgt	tctcttctaa	gagtgctggg	taccaaattg	4920											
218	ttaccagtat	tttagttatat	tttgagggtt	gtgaaaagta	gtgtaatgtg	ggagcaggag	4980											
220	ttcatgtaa	aaccgttagat	gtctgttagag	cttctggcc	gtttgtttga	aactttggat	5040											
222	gctgagctct	atctggtag	atggttaaa	aatgcatgtg	taattttaaat	tttataatta	5100											
224	ttttggcaag	cataattttt	tctggacaac	ctttaggtta	gccttaactt	ttagccaact	5160											
226	ttgttttta	tataaatata	tataaatata	tacatataat	atgtatggg	gtaaattcat	5220											
228	acacttatca	catgtatgt	tactatatac	agaattc			5257											
231	<210>	SEQ ID NO:	2															
233	<211>	LENGTH:	1202															
235	<212>	TYPE:	PRT															
237	<213>	ORGANISM:	Mus musculus															
241	<400>	SEQUENCE:	2															
243	Met	Ser	Phe	Phe	Asn	Phe	Arg	Lys	Ile	Phe	Lys	Leu	Gly	Ser	Glu	Lys		
244	1				5				10						15			
247	Lys	Lys	Lys	Gln	Tyr	Glu	His	Val	Lys	Arg	Asp	Leu	Asn	Pro	Glu	Glu		
248					20				25						30			
251	Phe	Trp	Glu	Ile	Ile	Gly	Glu	Leu	Gly	Asp	Gly	Ala	Phe	Gly	Lys	Val		
252					35				40						45			
255	Tyr	Lys	Ala	Gln	Asn	Lys	Glu	Thr	Asn	Val	Leu	Ala	Ala	Ala	Lys	Val		
256					50				55						60			
259	Ile	Asp	Thr	Lys	Ser	Glu	Glu	Glu	Leu	Glu	Asp	Tyr	Met	Val	Glu	Ile		
260					65				70						75		80	
263	Asp	Ile	Leu	Ala	Ser	Cys	Asp	His	Pro	Asn	Ile	Val	Lys	Leu	Leu	Asp		
264						85				90						95		
267	Ala	Phe	Tyr	Tyr	Glu	Asn	Asn	Leu	Trp	Ile	Leu	Ile	Glu	Phe	Cys	Ala		
268						100				105						110		
271	Gly	Gly	Ala	Val	Asp	Ala	Val	Met	Leu	Glu	Leu	Glu	Arg	Pro	Leu	Thr		
272						115				120						125		
275	Glu	Ser	Gln	Ile	Gln	Val	Val	Cys	Lys	Gln	Thr	Leu	Glu	Ala	Leu	Asn		
276						130				135						140		
279	Tyr	Leu	His	Asp	Asn	Ile	Ile	His	Arg	Asp	Leu	Lys	Ala	Gly	Asn			
280						145				150						155		160
283	Ile	Leu	Phe	Thr	Leu	Asp	Gly	Asp	Ile	Lys	Leu	Ala	Asp	Phe	Gly	Val		
284							165				170					175		
287	Ser	Ala	Lys	Asn	Thr	Arg	Thr	Ile	Gln	Arg	Arg	Asp	Ser	Phe	Ile	Gly		
288							180				185					190		
291	Thr	Pro	Tyr	Trp	Met	Ala	Pro	Glu	Val	Val	Met	Cys	Glu	Thr	Ser	Lys		
292						195				200						205		
295	Asp	Arg	Pro	Tyr	Asp	Tyr	Lys	Ala	Asp	Val	Trp	Ser	Leu	Gly	Ile	Thr		
296						210				215						220		
299	Leu	Ile	Glu	Met	Ala	Glu	Ile	Glu	Pro	Pro	His	His	Glu	Leu	Asn	Pro		
300						225				230						235		240
303	Met	Arg	Val	Leu	Leu	Lys	Ile	Ala	Lys	Ser	Glu	Pro	Pro	Thr	Leu	Ala		
304							245				250					255		
307	Gln	Pro	Ser	Lys	Trp	Ser	Ser	Asn	Phe	Lys	Asp	Phe	Leu	Arg	Lys	Cys		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/926,036

DATE: 02/13/2002
TIME: 10:00:04

Input Set : A:\Sequence
Output Set: N:\CRF3\02132002\I926036.raw

308	260	265	270
311	Leu Glu Lys Asn Val Asp Ala Arg Trp Thr Thr Ser Gln Leu Leu Gln		
312	275	280	285
315	His Pro Phe Val Thr Val Asp Ser Asn Lys Pro Val Arg Glu Leu Ile		
316	290	295	300
319	Ala Glu Ala Lys Ala Glu Val Thr Glu Glu Val Glu Asp Gly Lys Glu		
320	305	310	315
323	Glu Asp Glu Glu Ala Glu Asn Ala Leu Pro Ile Pro Ala Asn		
324	325	330	335
327	Lys Arg Ala Ser Ser Asp Leu Ser Ile Ala Ser Ser Glu Glu Asp Lys		
328	340	345	350
331	Leu Ser Gln Asn Ala Cys Ile Leu Glu Ser Val Ser Glu Arg Thr Glu		
332	355	360	365
335	Gln Ser Thr Ser Glu Asp Lys Phe Ser Asn Lys Ile Leu Asn Glu Lys		
336	370	375	380
339	Pro Thr Thr Asp Gly Pro Glu Lys Ala Val Asp Glu His Ala Ser Asp		
340	385	390	395
343	Val Asn Leu Glu Thr Gly Ala Glu Leu Asn Asp Gln Thr Val Gly Ile		
344	405	410	415
347	His Glu Asn Gly Arg Glu Lys Lys Arg Pro Lys Leu Glu Asn Leu Pro		
348	420	425	430
351	Asp Thr Gln Asp Gln Gln Thr Val Asp Val Asn Ser Val Ser Glu Glu		
352	435	440	445
355	Asn Glu Asn Asn Arg Val Thr Leu Glu Thr Asn Thr Asp Cys Leu Lys		
356	450	455	460
359	Pro Glu Glu Asp Arg Asn Lys Glu Asn Gln Glu Thr Leu Glu Ser Lys		
360	465	470	475
363	Leu Ile Gln Ser Glu Glu Ile Asn Asp Thr His Ile Gln Thr Met Asp		
364	485	490	495
367	Leu Val Ser Gln Glu Thr Gly Glu Lys Glu Ala Asp Phe Gln Ala Val		
368	500	505	510
371	Asp Asn Glu Val Gly Leu Thr Lys Glu Glu Thr Gln Glu Lys Leu Gly		
372	515	520	525
375	Lys Asp Gly Thr Ala Gln Lys Val Ile Thr Ser Asp Arg Ser Ser Glu		
376	530	535	540
379	Val Gly Thr Asp Glu Ala Leu Asp Asp Thr Gln Lys Ala Ala Glu Leu		
380	545	550	555
383	Ser Lys Ala Ala Gln Ser Gly Glu Gly Asp Glu Ala Leu Ala Pro Thr		
384	565	570	575
387	Gln Thr Leu Ala Glu Lys Pro Thr Glu Gly Pro Glu Ala Gly Ala		
388	580	585	590
391	Glu Glu Glu Pro Pro Gly Gly Glu Arg Val Glu Asp Lys Gln Pro Glu		
392	595	600	605
395	Gln Gln Pro Ala Val Cys Glu Ala Glu Gly Gln Leu Thr Ser Thr Ser		
396	610	615	620
399	Glu Thr Thr Arg Ala Thr Leu Glu Gln Pro Glu Thr Asp Glu Val Glu		
400	625	630	635
403	Gln Val Ser Glu Ser Asn Ser Ile Glu Glu Leu Glu Arg Leu Val Val		
404	645	650	655

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/926,036

DATE: 02/13/2002
TIME: 10:00:04

Input Set : A:\Sequence
Output Set: N:\CRF3\02132002\I926036.raw

407 Thr Gly Ala Glu Ala Arg Ala Leu Gly Ser Glu Gly Glu Ala Ala Ala
408 660 665 670
411 Thr Glu Val Asp Leu Glu Arg Lys Glu Asn Ala Gln Lys Val Pro Val
412 675 680 685
415 Lys Ala Glu Ser Gln Ala Pro Ala Ala Ser Gln Pro Ser Glu Pro His
416 690 695 700
419 Pro Val Leu Ile Pro Ser Ile Asn Ile Asn Ser Glu Thr Thr Glu Asn
420 705 710 715 720
423 Lys Glu Glu Met Gly Ala Leu Pro Lys Pro Glu Thr Ile Leu Pro Pro
424 725 730 735
427 Glu Pro Glu His Glu Lys Gly Asn Asp Thr Asp Ser Gly Thr Gly Ser
428 740 745 750
431 Thr Val Glu Asn Ser Ser Gly Asp Leu Asn Leu Ser Ile Ser Ser Phe
432 755 760 765
435 Leu Ser Lys Ala Lys Asp Ser Gly Ser Val Ser Leu Gln Glu Thr Arg
436 770 775 780
439 Arg Gln Lys Lys Thr Leu Lys Thr Arg Lys Phe Ile Val Asp Gly
440 785 790 795 800
443 Val Glu Val Ser Val Thr Thr Ser Lys Ile Val Thr Asp Ser Asp Ser
444 805 810 815
447 Lys Thr Glu Glu Leu Arg Phe Leu Arg Arg Gln Glu Leu Arg Glu Leu
448 820 825 830
451 Arg Leu Leu Gln Lys Glu Glu Gln Arg Ala Gln Gln Leu Asn Gly
452 835 840 845
455 Lys Leu Gln Gln Arg Glu Gln Ile Phe Arg Arg Phe Glu Gln Glu
456 850 855 860
459 Met Leu Ser Lys Lys Arg Gln Tyr Asp Gln Glu Ile Glu Asn Leu Glu
460 865 870 875 880
463 Lys Gln Gln Lys Gln Thr Ile Glu Arg Leu Glu Gln Glu His Thr Asn
464 885 890 895
467 Arg Leu Arg Asp Glu Ala Lys Arg Ile Lys Gly Glu Gln Glu Lys Glu
468 900 905 910
471 Leu Ser Lys Phe Gln Asn Val Leu Lys Asn Arg Lys Lys Glu Glu Gln
472 915 920 925
475 Glu Phe Val Gln Lys Gln Gln Glu Leu Asp Gly Ser Leu Lys Lys
476 930 935 940
479 Ile Ile Gln Gln Lys Ala Glu Leu Ala Asn Ile Glu Arg Glu Cys
480 945 950 955 960
483 Leu Asn Asn Lys Gln Gln Leu Met Arg Ala Arg Glu Ala Ala Ile Trp
484 965 970 975
487 Glu Leu Glu Glu Arg His Leu Gln Glu Lys His Gln Leu Leu Lys Gln
488 980 985 990
491 Gln Leu Lys Asp Gln Tyr Phe Met Gln Arg His Gln Leu Leu Lys Arg
492 995 1000 1005
495 His Glu Lys Glu Thr Glu Gln Met Gln Arg Tyr Asn Gln Arg Leu
496 1010 1015 1020
499 Ile Glu Glu Leu Lys Asn Arg Gln Thr Gln Glu Arg Ala Arg Leu
500 1025 1030 1035
503 Pro Lys Ile Gln Arg Ser Glu Ala Lys Thr Arg Met Ala Met Phe

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/926,036

DATE: 02/13/2002

TIME: 10:00:05

Input Set : A:\Sequence

Output Set: N:\CRF3\02132002\I926036.raw